

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

Arrow United Industries 450 Riverside Drive Wyalusing, PA 18853

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model EA-22 4" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. 35972-4, titled "EA-22 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/2000, with revision C1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren. W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 08-1030.03 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMIDADE COUNTY
APPROVED

NOA No. 11-1117.07 Expiration Date: July 27, 2013 Approval Date: January 19, 2012 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 35972-4, titled "EA-22 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/2000, with revision C1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren W. Schaefer, P.E.

B. TESTS "Submitted under NOA No. 08-1030.03"

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram, of "A.U.I. EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0811-08**, dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS "Submitted under NOA No. 08-1030.03"

1. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/2008, signed and sealed by Warren W. Schaefer, P.E.

"Submitted under NOA No. 03-0514.13"

- 2. Allowable Load Calculations, dated 11/10/1999, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by W. W. Schaefer, P.E.
- 3. Allowable Load Calculations, dated 04/14/2000, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by W. W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

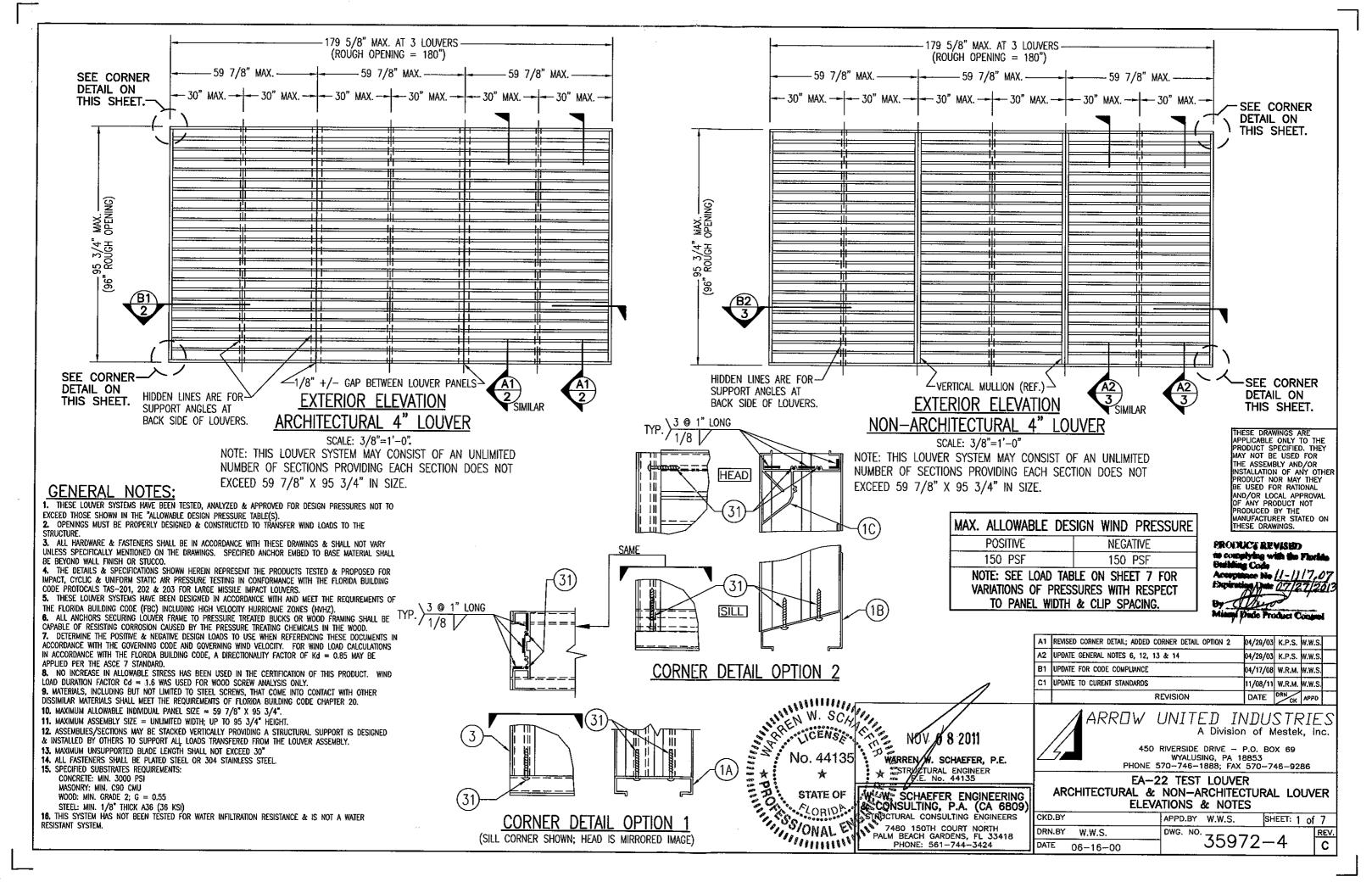
- 1. Statement letter of code conformance to 2007 and 2010 FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.
- 2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.

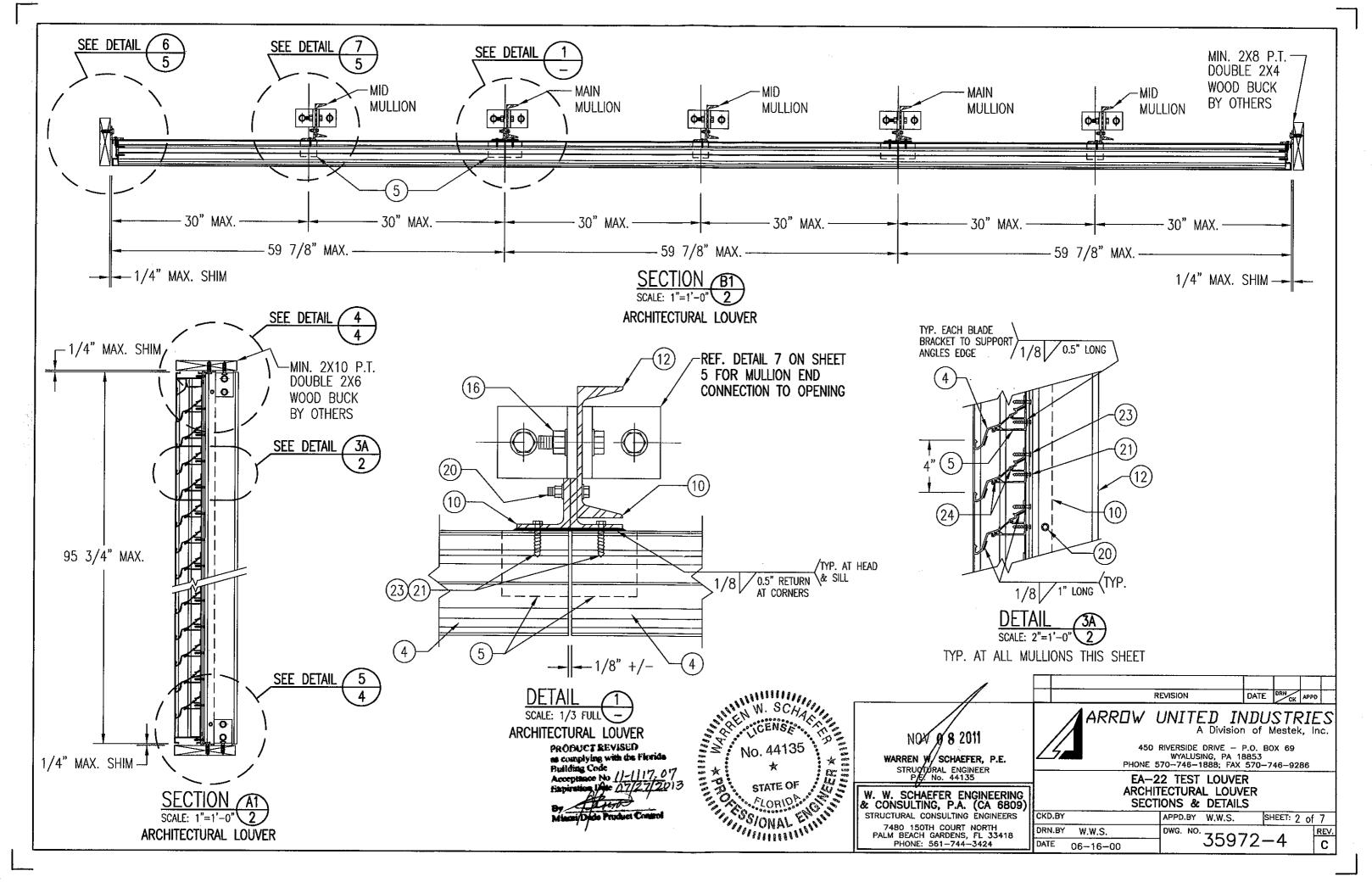
"Submitted under NOA No. 08-1030.03"

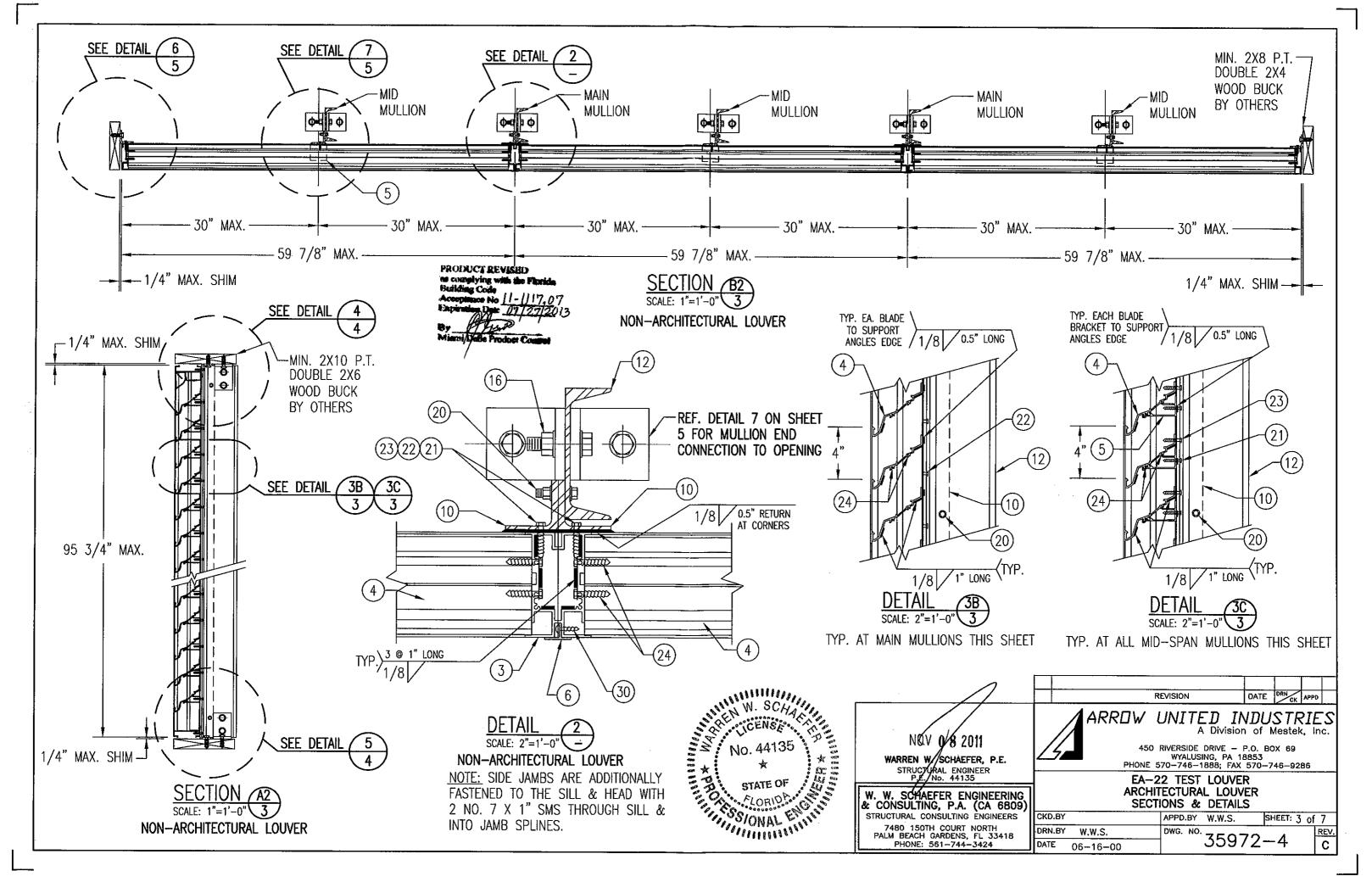
3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

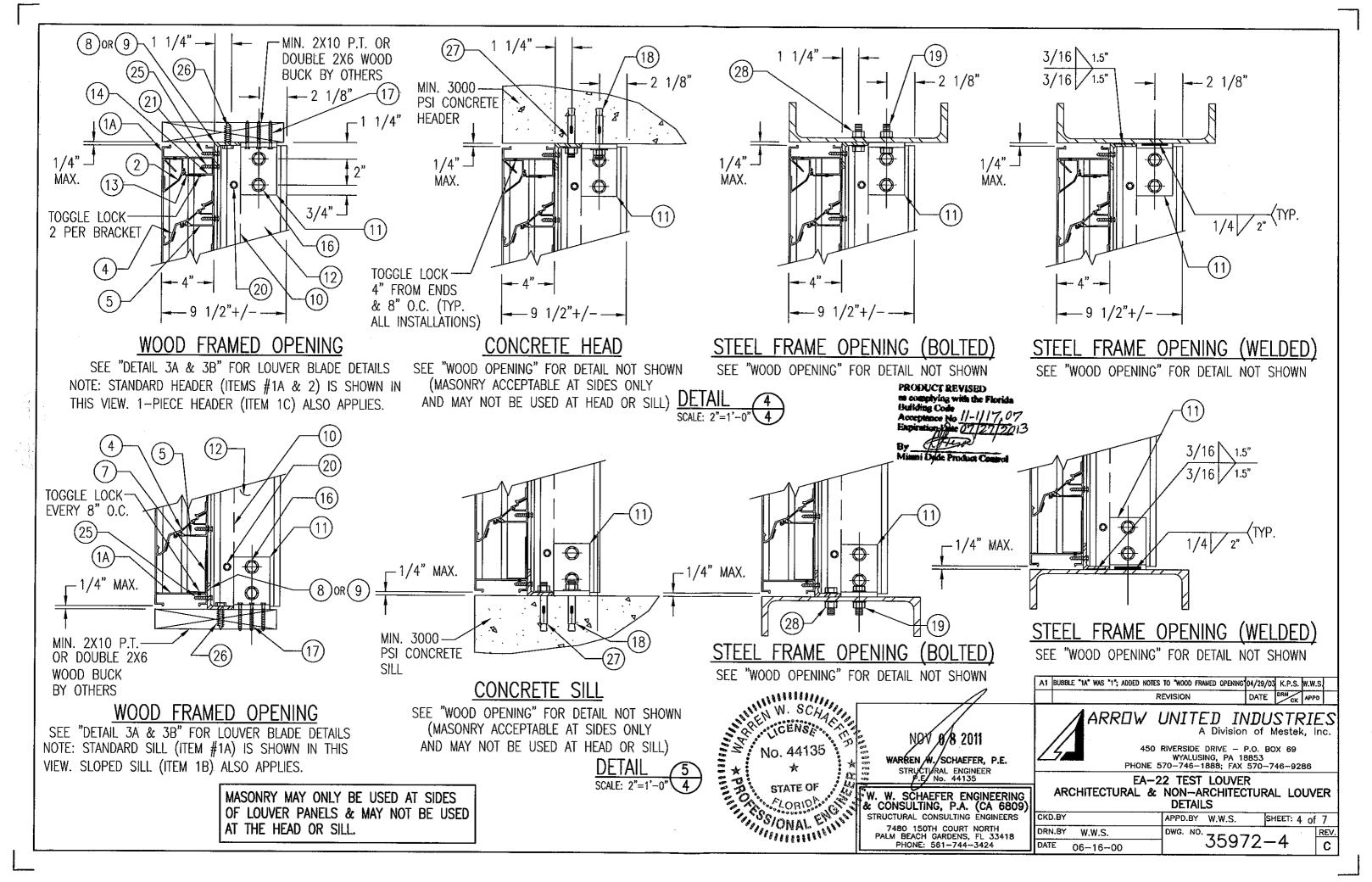
Carlos M. Utrera, P.E. Product Control Examiner NOA No. 11-1117.07

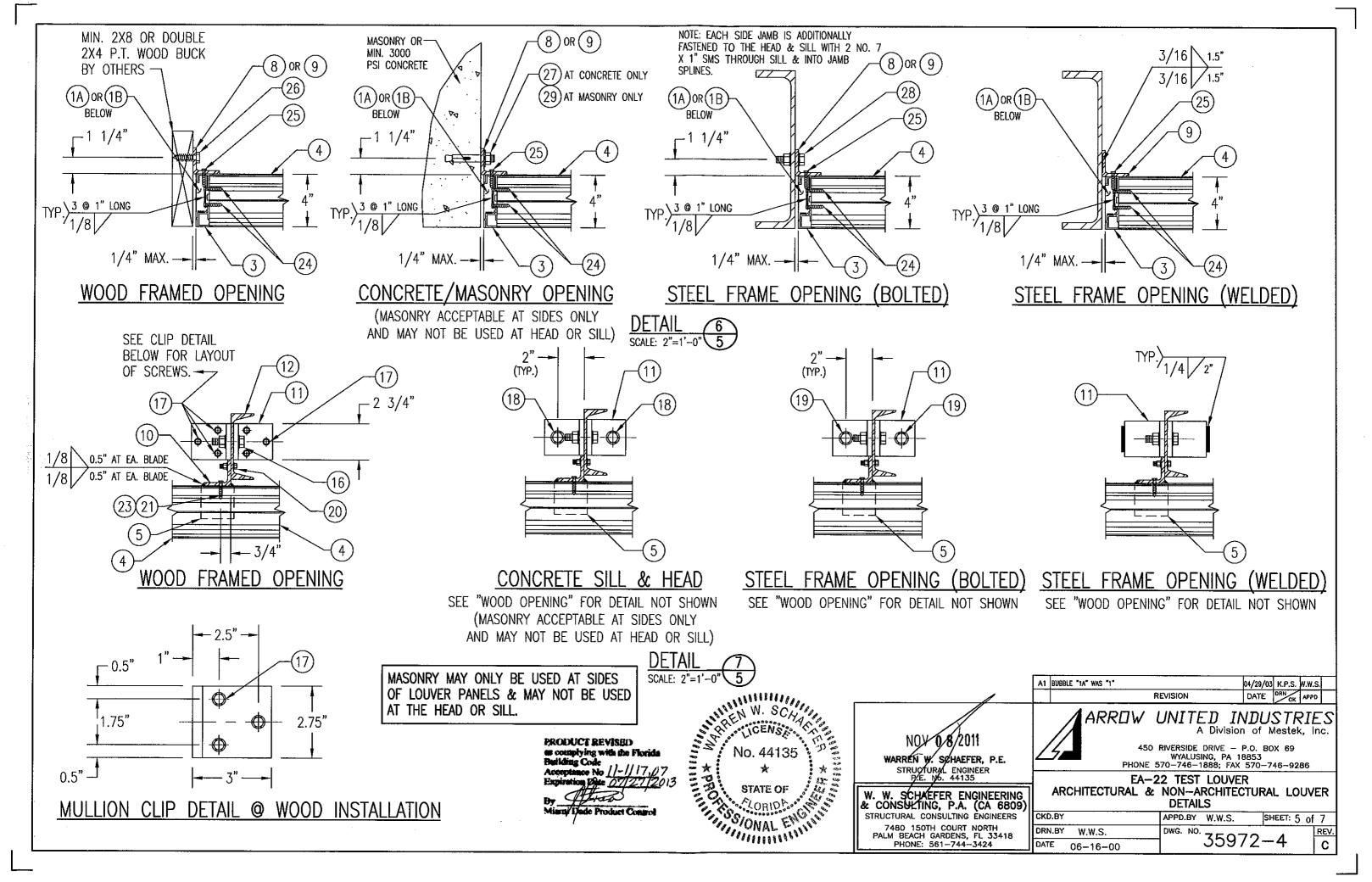
Expiration Date: July 27, 2013 Approval Date: January 19, 2012

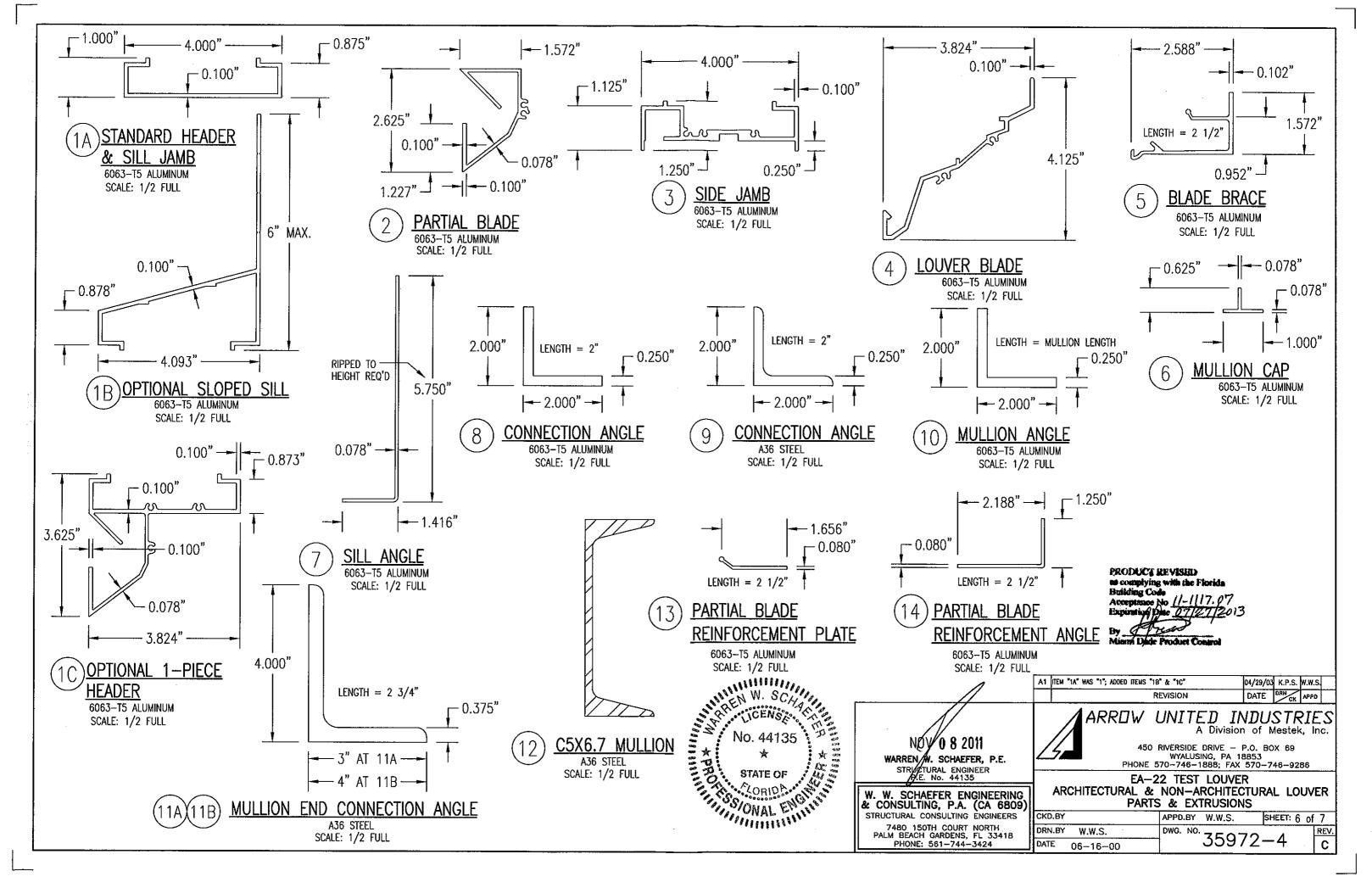












ALLOWABLE WIND PRESSURE VS. JAMB CLIP SPACING AND PANEL WIDTH				
	CLIP SPACING	WITH MID SPAN MULLION		
(INCHES)	(INCHES)	(PSF)	(PSF)	
	8	150	150	
	12	150	150	
16	16	150	140	
	20	150	105	
	24	150	70	
20	8	150	150	
	12	150	140	
	16	150	112	
	20	150	84	
	24	150	56	
24	8	150	140	
	12	150	117	
	16	150	93	
	20	150	70	
	24	125	47	
	8	150	82	
28	12	150	68	
	16	150	54	
	20	150	41	
	24	107	27	
	8	150	62	
30	12	150	52	
	16	150	41	
	20	140	31	
	24	93		
	8	150	-	
	12	150	-	
36	16	150		
	20	125	-	
	24	83	-	
	8	150	_	
	12	150	-	
42	16	142	_	
	20	107	_	
	24	71	_	
48	8	150	-	
	12	150	-	
	16	125	-	
	20	93	-	
	24	62	=	
54	8	150	_	
	12	138	_	
	16	111		
	20	83	_	
	24	55	-	
60	. 8	150		
	12	125		
	16	100	_	
	20	75		
	24	50		

	MATERIAL LIST			
NO.	DESCRIPTION	NOTES/SPECIFICATIONS		
	PARTS/EXTRUSIONS			
1A	STANDARD HEADER & SILL JAMB	6063-T5 ALUMINUM		
1B	OPTIONAL SLOPED SILL	6063-T5 ALUMINUM		
1C	OPTIONAL 1-PIECE HEADER	6063-T5 ALUMINUM		
2	PARTIAL BLADE & HEAD	6063-T5 ALUMINUM		
3	SIDE JAMB	6063-T5 ALUMINUM		
4	LOUVER BLADE	6063-T5 ALUMINUM		
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM		
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS		
7	SILL ANGLE	6063-T5 ALUMINUM; FULL WIDTH OF PANEL		
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2		
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2		
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063-T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION		
11	L4X3X3/8 MULLION END CONNECTION ANGLE 2 3/4" LONG	A36 STEEL; 2 PER MULLION END		
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS		
13	PARTIAL BLADE REINFORCEMENT PLATE (2 1/2" LONG)	6063-T5 ALUMINUM		
14	PARTIAL BLADE REINFORCEMENT ANGLE (2 1/2" LONG)	6063-T5 ALUMINUM		
15	OPEN			
L	FASTENERS ,			
16		WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END		
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED		
	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY		
19		WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME		
20	5/16-18 UNC X 1 1/2" HEX HEAD STEEL OR S/STL BOLT			
21	NO. 8 X 3/4" SMS SCREW	1 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS		
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 3/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME		
23	NO. 14 X 1" SMS SCREW	1 AT EACH LOUVER BLADE AT ALL ARCHITECTURAL MAIN MULLIONS & ALL MID-SPAN MULLIONS		
24	NO. 7 X 1" SMS SCREW	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES		
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE		
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME		
27	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY		
28	1/2" X 2" HEX HEAD A307 PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME		
29	3/8" X 1 7/8" SLEEVE ANCHOR WITH FLAT WASHER	RED HEAD DYNABOLT WITH MIN 1 1/2" BLOCK/CONCRETE EMBED (1 PER FRAME SUPPORT CLIP)		
30	NO. 8 X 1/2" SMS SCREW	WITHIN 2" OF MULLION ENDS & MAX. 12" O.C. (MULLION CAP TO MULLION)		
31	NO. 7 X 1" SMS SCREWS	2 PER FRAME CORNER THROUGH SILL/HEAD FRAME & INTO JAMB SPLINES		
	PRODUCE CONTROL OF CON			

PRESSURE TABLE NOTES:

1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.

WIND STATE OF CORIDA CONAL ENGINEERS 2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.

PRODUCT REVISED es complying with the Florida Building Code NORTH W. SCAME

WARREN W. SCHAEFER, P.E. STRUCTURAL ENGINEER P.E. No. 44135

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) STRUCTURAL CONSULTING ENGINEERS 7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

A1 ITEM "1A" WAS "1"; ADDED ITEMS "1B" & "1C" 04/29/03 K.P.S. W.W.S DATE ORN REVISION

ARROW UNITED INDUSTRIES
A Division of Mestek, Inc.

450 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286

С

EA-22 TEST LOUVER ARCHITECTURAL & NON-ARCHITECTURAL LOUVER MATERIAL LIST & LOAD TABLE

CKD.BY APPD.BY W.W.S. SHEET: 7 of 7 DWG. NO. 35972-4 DRN.BY W.W.S. DATE 06-16-00